EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	dynamic$4 near4 (allocat$3 assign$3) near (task process) same (database table list) same server. ab.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 08:38
L2	6	dynamic$4 near4 (allocat$3 assign$3) near (task process) same (database table list) same server	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 08:44
L3	48	dynamic$4 near4 (allocat$3 assign$3) near (task process).ab.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 08:44
L4	14	l3 and server and (database table list) and distribut$3	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 08:52
L5	5397	718/100-108.ccls.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 08:52
L6	11	l5 and l3	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 08:54
L7	1	server near set same (task near allocat$3)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 08:55
L8	43	server near set and (task near allocat$3)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 08:55
L9	4802969	@ad<="20000716"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 08:55
L10	18	l8 and l9	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 08:56
L11	4987714	@ad<="20010116"	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 08:56

L12	18	I11 and I8	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 09:03
L13	0	"server set" same (redirect$3 near task) same IP	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 09:04
L14	0	"server set" same (redirect$3 near task)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 09:04
L15	0	server adj1 set same (redirect$3 near task)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 09:04
L16	2	server adj1 set and (redirect$3 near task)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 09:05
L17	1155	servers same select$3 with task	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 09:06
L18	15	servers same select$3 with task same (IP) same (database table list)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 09:07
L19	3	I18 and I11	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 09:06
L20	378	servers same select$3 with task same (database table list)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 09:07
L21	16	servers same select$3 with task same (database table list).ab.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 09:07
L22	7	I21 and I11	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 10:07
L23	1	"6983479".pn.	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 10:08

L24	273	distribut$3 near server same (load near balanc$3)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 10:08
L25	27	distribut$3 near server same (load near balanc$3) same (attribute value rule criteria policy)	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 10:09
L26	12	25 and l11	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/05/09 10:09

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1 Adaptive TTL schemes for load balancing of distributed Web servers ▮

Michele Colajanni, Philip S. Yu
September 1997 **ACM SIGMETRICS Performance Evaluation Review**, Volume 25 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(488.09 KB)   Additional Information: full citation, abstract, citings, index terms

> With ever increasing web traffic, a distributed Web system can provide scalability and flexibility to cope with growing client demands. Load balancing algorithms to spread the load across multiple Web servers are crucial to achieve the scalability. Various *domain name server* (DNS) based schedulers have been proposed in the literature, mainly for multiple homogeneous servers. DNS provides (logical) host name to IP-address mapping (i.e., the server assignment), but the mapping is not done f ...

2 The state of the art in locally distributed Web-server systems ▮

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(1.41 MB)   Additional Information: full citation, abstract, references, citings, index terms

> The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

> **Keywords:** Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

3 An adaptive load balancing scheme for web servers ▮

James Aweya, Michel Ouellette, Delfin Y. Montuno, Bernard Doray, Kent Felske
January 2002 **International Journal of Network Management**, Volume 12 Issue 1
Publisher: John Wiley & Sons, Inc.
Full text available: 📄 pdf(1.00 MB)   Additional Information: full citation, abstract, references, index terms

> This paper describes an overload control scheme for web servers which integrates

admission control and load balancing. The admission control mechanism adaptively determines the client request acceptance rate to meet the web servers' performance requirements while the load balancing or client request distribution mechanism determines the fraction of requests to be assigned to each web server. The scheme requires no prior knowledge of the relative speeds of the web servers, nor the work required t ...

4 IP layer load balance using fuzzy logic under IPv6 anycast mechanism
Chi-Yuan Chang, Wei-Ming Chen, Han-Chieh Chao, T. G. Tsuei, Hong Bin Liu
September 2005 **International Journal of Network Management,** Volume 15 Issue 5
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(228.98 KB)   Additional Information: full citation, abstract, references, index terms

With the emergence of databases and Internet technology, the way data is acquired and accessed has changed with more convenient service. After years of evolution, the current IPv6 Internet Protocol (IP) has enabled the user to check any database worldwide by logging onto the Internet whenever you want and regardless of where you are. The load balance or efficiency issue arises when many users overload a server or database. This paper addresses this issue using the anycast characteristics. An act ...

5 Load distribution among replicated Web servers: a QoS-based approach
Marco Conti, Enrico Gregori, Fabio Panzieri
March 2000 **ACM SIGMETRICS Performance Evaluation Review,** Volume 27 Issue 4
Publisher: ACM Press
Full text available: pdf(695.59 KB)   Additional Information: full citation, abstract, index terms

A dominant factor for the success of an Internet based Web service is the Quality of Service (QoS) perceived by its users. The principal QoS attributes these users perceive include those related to the service "responsiveness", i.e. the service availability and timeliness. In this paper, we argue that QoS can be provided by distributing the processing load among replicated Web servers, and that these servers can be geographically distributed across the Internet. In this context, we discuss strat ...

Keywords: QoS, Web server, load distribution

6 Load balancing for parallel forwarding
Weiguang Shi, M. H. MacGregor, Pawel Gburzynski
August 2005 **IEEE/ACM Transactions on Networking (TON),** Volume 13 Issue 4
Publisher: IEEE Press
Full text available: pdf(526.74 KB)   Additional Information: full citation, abstract, references, index terms

Workload distribution is critical to the performance of network processor based parallel forwarding systems. Scheduling schemes that operate at the packet level, e.g., round-robin, cannot preserve packet-ordering within individual TCP connections. Moreover, these schemes create duplicate information in processor caches and therefore are inefficient in resource utilization. Hashing operates at the flow level and is naturally able to maintain per-connection packet ordering; besides, it does not po ...

Keywords: Zipf-like distribution, load balancing, parallel IP forwarding

7 Design and implementation of a portable and adaptable load balancing framework
Erik Putrycz
October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research** ·
Publisher: IBM Press

Full text available: pdf(902.69 KB)   Additional Information: full citation, abstract, references, index terms

Scaling applications to large networks and an increasing number of users has been since years a technical challenge. Today, well known technologies exist to scale applications to local networks but scaling to large networks with high latency is still a challenge. Load balancing at the middleware level allows more flexibility (in terms of granularity and distribution) than existing solutions based at lower system levels. However, it requires an execution infrastructure and mechanisms to be integr ...

8 Load balancing in distributed workflow management system

Li-jie Jin, Fabio Casati, Mehmet Sayal, Ming-Chien Shan
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(264.32 KB)   Additional Information: full citation, references, index terms

Keywords: business process, load balancing, load index, workflow

9 Distributed cooperative Apache web server

Quanzhong Li, Bongki Moon
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(306.36 KB)   Additional Information: full citation, references, citings, index terms

Keywords: Apache, DC-Apache, WWW, distributed Web server, load balancing, replication, scalable Web server

10 Protecting web servers from distributed denial of service attacks

Frank Kargl, Joern Maier, Michael Weber
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(390.23 KB)   Additional Information: full citation, references, citings, index terms

Keywords: DDoS, Linux, class based routing, distributed denial of service attacks, web server security

11 Locality-aware request distribution in cluster-based network servers

Vivek S. Pai, Mohit Aron, Gaurov Banga, Michael Svendsen, Peter Druschel, Willy Zwaenepoel, Erich Nahum
October 1998 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the eighth international conference on Architectural support for programm ing languages and operating systems ASPLOS-VIII**, Volume 33 , 32 Issue 11 , 5
Publisher: ACM Press
Full text available: pdf(1.59 MB)   Additional Information: full citation, abstract, references, citings, index terms

We consider cluster-based network servers in which a front-end directs incoming requests to one of a number of back-ends. Specifically, we consider *content-based request*

distribution: the front-end uses the content requested, in addition to information about the load on the back-end nodes, to choose which back-end will handle this request. Content-based request distribution can improve locality in the back-ends' main memory caches, increase secondary storage scalability by partitioning th ...

12 Load-balanced location management for cellular mobile systems using quorums and dynamic hashing

Ravi Prakash, Zygmunt Haas, Mukesh Singhal
September 2001 **Wireless Networks,** Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(282.87 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a new distributed location management strategy for cellular mobile systems. Its salient features are fast location update and query, load balancing among location servers, and scalability. The strategy employs dynamic hashing techniques and quorums to manage location update and query operations. The proposed strategy does not require a home location register (HLR) to be associated with each mobile node. Location updates and queries for a mobile node are multicast to subsets o ...

Keywords: distributed location management, dynamic hashing, location independent numbering, mobile computing, quorum systems, tries

13 Dimensioning server access bandwidth and multicast routing in overlay networks

Sherlia Y. Shi, Jonathan S. Turner, Marcel Waldvogel
January 2001 **Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video**
Publisher: ACM Press

Full text available: pdf(227.12 KB)   Additional Information: full citation, abstract, references, index terms

Application-level multicast is a new mechanism for enabling multicast in the Internet. Driven by the fast growth of network audio/video streams, application-level multicast has become increasingly important for its efficiency of data delivery and its ability of providing value-added services to satisfy application specific requirements. From a network design perspective, application-level multicast differs drastically from traditional IP multicast in its network cost model and routing stra ...

14 Scheduling optimization for resource-intensive Web requests on server clusters

Huican Zhu, Ben Smith, Tao Yang
June 1999 **Proceedings of the eleventh annual ACM symposium on Parallel algorithms and architectures**
Publisher: ACM Press

Full text available: pdf(1.19 MB)   Additional Information: full citation, references, citings, index terms

15 A two-tier heterogeneous mobile Ad Hoc network architecture and its load-balance routing problem

Chi-Fu Huang, Hung-Wei Lee, Yu-Chee Tseng
August 2004 **Mobile Networks and Applications,** Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(1.28 MB)   Additional Information: full citation, abstract, references, index terms

The mobile ad hoc network (MANET) has attracted a lot of interest recently. However, most of the existing works have assumed a stand-alone MANET. In this paper, we propose a two-tier, heterogeneous MANET architecture which can support Internet access. The low

tier of the network consists of a set of mobile hosts each equipped with a IEEE 802.11 wireless LAN card. In order to connect to the Internet and handle the network partitioning problem, we propose that the high tier is comprised of a subse ...

Keywords: ad hoc network, load balance, mobile computing, routing, wireless network

16 Defending against distributed denial-of-service attacks with max-min fair server-centric router throttles

David K. Y. Yau, John C. S. Lui, Feng Liang, Yeung Yam
February 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 1
Publisher: IEEE Press
Full text available: pdf(820.35 KB)   Additional Information: full citation, abstract, references, index terms

Our work targets a network architecture and accompanying algorithms for countering distributed denial-of-service (DDoS) attacks directed at an Internet server. The basic mechanism is for a server under stress to install a router throttle at selected upstream routers. The throttle can be the leaky-bucket rate at which a router can forward packets destined for the server. Hence, before aggressive packets can converge to overwhelm the server, participating routers proactively regulate the contribut ...

Keywords: congestion control, distributed denial of service, network security, router throttling

17 Dynamic load balancing of data parallel applications on a distributed network

Mounir Hamdi, Chi-Kin Lee
July 1995 **Proceedings of the 9th international conference on Supercomputing**
Publisher: ACM Press
Full text available: pdf(1.06 MB)   Additional Information: full citation, references, index terms

18 A market-based architecture for management of geographically dispersed, replicated Web servers

Mehmet Karaul, Yannis A. Korilis, Ariel Orda
October 1998 **Proceedings of the first international conference on Information and computation economies**
Publisher: ACM Press
Full text available: pdf(1.02 MB)   Additional Information: full citation, references, citings, index terms

Keywords: game theory, load balancing, market-based computing, pricing, resource allocation

19 Load-sensitive routing of long-lived IP flows

Anees Shaikh, Jennifer Rexford, Kang G. Shin
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '99**, Volume 29 Issue 4
Publisher: ACM Press
Full text available: pdf(1.57 MB)   Additional Information: full citation, abstract, references, citings, index terms

Internet service providers face a daunting challenge in provisioning network resources,

due to the rapid growth of the Internet and wide fluctuations in the underlying traffic patterns. The ability of dynamic routing to circumvent congested links and improve application performance makes it a valuable traffic engineering tool. However, deployment of load-sensitive routing is hampered by the overheads imposed by link-state update propagation, path selection, and signaling. Under reasonable protoc ...

20 Application level performance: On the use and performance of content distribution networks

Balachander Krishnamurthy, Craig Wills, Yin Zhang

November 2001 **Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement**

Publisher: ACM Press

Full text available: pdf(2.51 MB)   Additional Information: full citation, abstract, references, citings, index terms

Content distribution networks (CDNs) are a mechanism to deliver content to end users on behalf of origin Web sites. Content distribution offloads work from origin servers by serving some or all of the contents of Web pages. We found an order of magnitude increase in the number and percentage of popular origin sites using CDNs between November 1999 and December 2000.In this paper we discuss how CDNs are commonly used on the Web and define a methodology to study how well they perform. A performanc ...

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